

USING CENSUS DATA IN GIS

Tim McMonagle

Geography

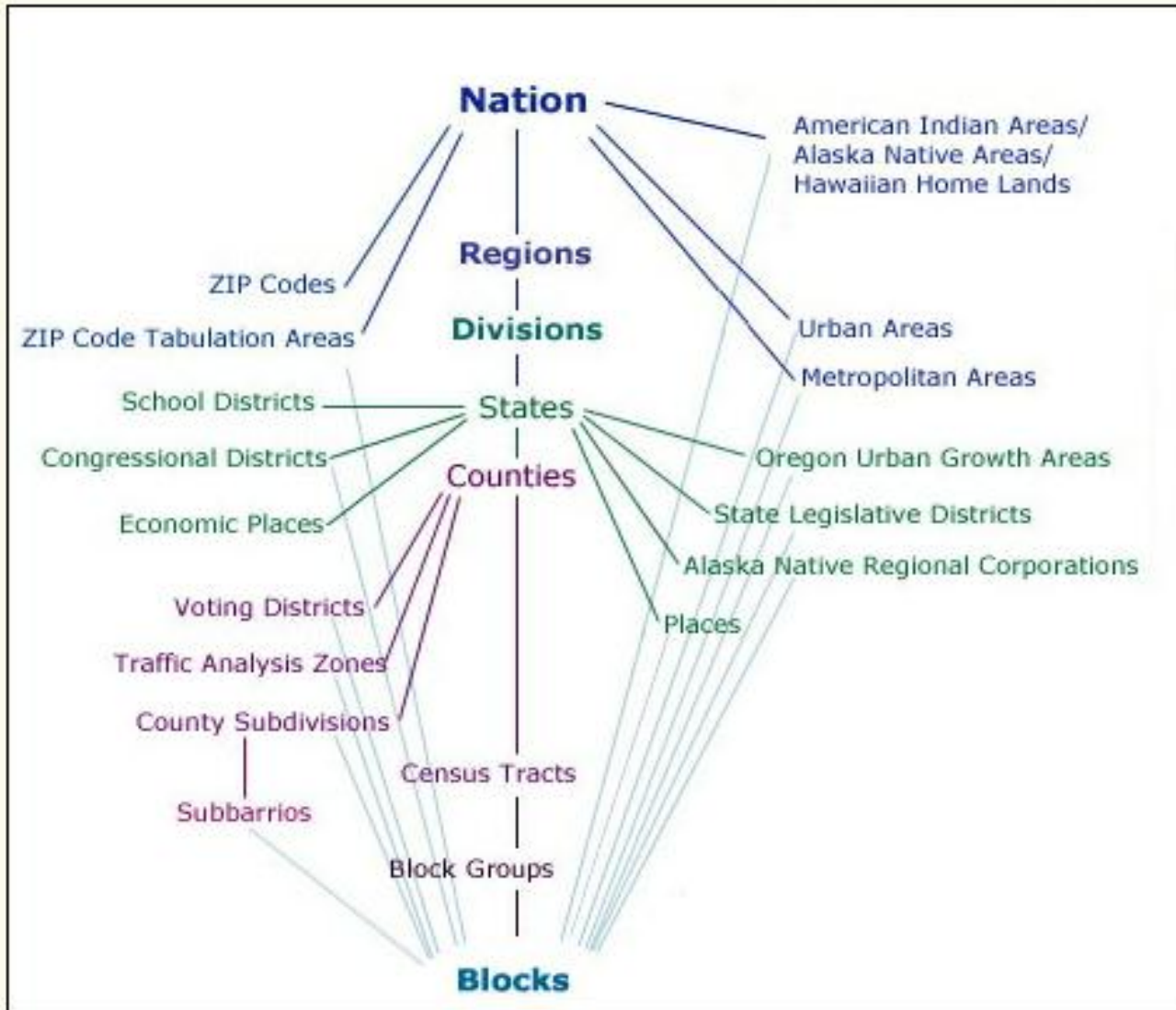
Los Angeles Regional Office

Topics

- Census Geography
- Demographic Data
- TIGER/Line Files
- Joining TIGER and Demographic Data
- Future for MTDB?

Census Geography

Hierarchy of Census Geography



Census Statistical Data

Accessing Demographic Data

The screenshot displays the U.S. Census Bureau website. The top navigation bar includes links for FAQs, Subjects A to Z, Help, and a search bar. The main content area features a large banner for the 2010 Resident Population, showing 308,745,538. Below this, there are links to learn more about the state, including Data Map, Animation, Video, News, Director's Blog, and Census Blog. The left sidebar contains a list of links, with 'Data Tools' and 'American FactFinder' circled in red. The right sidebar includes a section for Census Blogs, Data Finders, and Population Clocks, showing the U.S. population as 311,034,925. At the bottom, there are links for Accessibility, Information Quality, FOIA, Data Protection & Privacy Policy, and U.S. Dept of Commerce.

U.S. Census Bureau

FAQs | Subjects A to Z | Help | SEARCH: GO

Redistricting Data
First Look at Local Data

New on the Site

Data Tools

American FactFinder

Jobs @ Census

Catalog

Publications

Are You in a Survey?

About the Bureau

Regional Offices

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2010 RESIDENT POPULATION
308,745,538

Learn more about your state

► Data Map
► Animation
► Video

► News
► Director's Blog
► Census Blog

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Read our Census Blogs

Data Finders

Population Clocks
U.S. 311,034,925
World 6,907,617,192
19:09 UTC (EST+5) Mar 23, 2011

Population Finder*
* Does not currently contain 2010 data
city/ town, county, or zip
or state
Select a state

Find An Area Profile with QuickFacts
Select a state to begin
Select a state

Latest Economic Indicators
• [New Home Sales](#)
• [New Residential Construction](#)

Economic Indicators
Select an indicator
Select an indicator

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Accessibility | Information Quality | FOIA | Data Protection & Privacy Policy | U.S. Dept of Commerce



The NEW American FactFinder is now available!

The transition from the legacy American FactFinder to the NEW American FactFinder will continue through the fall of 2011. Data on the legacy FactFinder will be moved to the NEW FactFinder in the coming months. [Frequently Asked Questions »](#)

The legacy American FactFinder will be discontinued in the fall of 2011.



for data from
Census 2010 (beginning in February 2011)
and **Census 2000**
go to
factfinder2.census.gov

Learn more about the New American FactFinder

For information about the release of data
from the 2010 Census, see the
[2010 Census Data Products](#)
[release schedule](#)



for data from the
American Community Survey,
the **Economic Census**,
and **Population Estimates**
go to
factfinder.census.gov

New American Fact Finder

U.S. Census Bureau

AMERICAN
FactFinder

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MAINSEARCHWHAT WE PROVIDEUSING FACTFINDEREnglishEspañol

Your Selections

"Your Selections" is empty

Topics ?

Geographies
(states, counties, places, ...)

Population Groups
(race, ancestry, ...)

Industry Codes
(NAICS, ...)

Legacy American FactFinder

The following data are available on the legacy American FactFinder System:

- 2007 Economic Census
- 2009 American Community Survey
- 2009 Population Estimates

Load Query

Use Load Query to restore a previously saved query

LOAD QUERY

Your source for population, housing, economic, and geographic data

View 2010 Census tables. Note that population counts are included in most tables.

View video tutorials to help you get started using the NEW American FactFinder.

Quick Start

Enter search term(s) and click 'GO' ?

topic or table name

for

geography (optional)

GO

☒ topics ☐ population groups ☐ industries

Or use the options on the left to begin your search

News and Notes

Apr 14, 2011

The National Summary File of Redistricting Data contains selected geographic areas previously released in the 2010 Census Redistricting Data (Public Law 94-171) Summary Files. In addition, this release includes summaries for the United States, regions, divisions and other geographic areas that cross state boundaries, such as American Indian areas, metropolitan statistical areas and micropolitan statistical areas. [more »](#)

Mar 18, 2011

Based on feedback we have received, we've modified some of the Topic and Geographic

U.S. Population Clock

22:41 UTC (EST+5) Apr 22, 2011

311,215,492


[more population clocks](#)

Reference Maps

Reference Maps show selected geographic boundaries for an area along with orienting features, such as roads.

United States

Address Search

 Find Census data by entering a street address.

Did you know?

< >

Irish was the nation's second most frequently reported ancestry, trailing

New American Fact Finder Download

DEC_10_SF1_QTP5 - Microsoft Excel

HomeInsertPage LayoutFormulasDataReviewViewAcrobat

<

GIS Ready

DEC_10_SF1_QTP5 - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	GEO.id	GEO.id2	Geography	S01	S01	S02	S02	S03	S03	S04	S04	S05	S05	S06
1	1400000US15003000106	15003000106	Census Tract 1.06, Honolulu County, Hawaii	7704	100	3668	47.6	2448	31.8	1220	15.8	4036	52.4	
2	1400000US15003000107	15003000107	Census Tract 1.07, Honolulu County, Hawaii	2818	100	1300	46.1	788	28	512	18.2	1518	53.9	
3	1400000US15003000108	15003000108	Census Tract 1.08, Honolulu County, Hawaii	3264	100	1872	57.4	1346	41.2	526	16.1	1392	42.6	
4	1400000US15003000110	15003000110	Census Tract 1.10, Honolulu County, Hawaii	4288	100	2041	47.6	1277	29.8	764	17.8	2247	52.4	
5	1400000US15003000111	15003000111	Census Tract 1.11, Honolulu County, Hawaii	5035	100	1926	38.3	1009	20	917	18.2	3109	61.7	
6	1400000US15003000112	15003000112	Census Tract 1.12, Honolulu County, Hawaii	5555	100	2214	39.9	1328	23.9	886	15.9	3341	60.1	
7	1400000US15003000114	15003000114	Census Tract 1.14, Honolulu County, Hawaii	1594	100	1050	65.9	864	54.2	186	11.7	544	34.1	
8	1400000US15003000200	15003000200	Census Tract 2, Honolulu County, Hawaii	5742	100	2312	40.3	1144	19.9	1168	20.3	3430	59.7	
9	1400000US15003000301	15003000301	Census Tract 3.01, Honolulu County, Hawaii	3307	100	1225	37	790	23.9	435	13.2	2082	63	
10	1400000US15003000302	15003000302	Census Tract 3.02, Honolulu County, Hawaii	2990	100	1185	39.6	649	21.7	536	17.9	1805	60.4	
11	1400000US15003000401	15003000401	Census Tract 4.01, Honolulu County, Hawaii	2893	100	1112	38.4	777	26.9	335	11.6	1781	61.6	
12	1400000US15003000402	15003000402	Census Tract 4.02, Honolulu County, Hawaii	3999	100	1404	35.1	957	23.9	447	11.2	2595	64.9	
13	1400000US15003000500	15003000500	Census Tract 5, Honolulu County, Hawaii	3807	100	1808	47.5	1312	34.5	496	13	1999	52.5	
14	1400000US15003000600	15003000600	Census Tract 6, Honolulu County, Hawaii	1218	100	569	46.7	403	33.1	166	13.6	649	53.3	
15	1400000US15003000700	15003000700	Census Tract 7, Honolulu County, Hawaii	2966	100	722	24.3	311	10.5	411	13.9	2244	75.7	
16	1400000US15003000800	15003000800	Census Tract 8, Honolulu County, Hawaii	3771	100	1100	29.2	524	13.9	576	15.3	2671	70.8	
17	1400000US15003000901	15003000901	Census Tract 9.01, Honolulu County, Hawaii	2736	100	971	35.5	609	22.3	362	13.2	1765	64.5	
18	1400000US15003000902	15003000902	Census Tract 9.02, Honolulu County, Hawaii	4088	100	1860	45.5	1246	30.5	614	15	2228	54.5	
19	1400000US15003000903	15003000903	Census Tract 9.03, Honolulu County, Hawaii	2858	100	940	32.9	507	17.7	433	15.2	1918	67.1	
20	1400000US15003001000	15003001000	Census Tract 10, Honolulu County, Hawaii	3096	100	1187	38.3	611	19.7	576	18.6	1909	61.7	
21	1400000US15003001100	15003001100	Census Tract 11, Honolulu County, Hawaii	3862	100	815	21.1	300	7.8	515	13.3	3047	78.9	
22	1400000US15003001201	15003001201	Census Tract 12.01, Honolulu County, Hawaii	2924	100	766	26.2	338	11.6	428	14.6	2158	73.8	
23	1400000US15003001202	15003001202	Census Tract 12.02, Honolulu County, Hawaii	3030	100	762	25.1	332	11	430	14.2	2268	74.9	
24	1400000US15003001300	15003001300	Census Tract 13, Honolulu County, Hawaii	4207	100	1250	29.7	568	13.5	682	16.2	2957	70.3	
25	1400000US15003001400	15003001400	Census Tract 14, Honolulu County, Hawaii	2550	100	742	29.1	377	14.8	365	14.3	1808	70.9	
26	1400000US15003001500	15003001500	Census Tract 15, Honolulu County, Hawaii	3527	100	1071	30.4	494	14	577	16.4	2456	69.6	
27	1400000US15003001600	15003001600	Census Tract 16, Honolulu County, Hawaii	3783	100	1213	32.1	618	16.3	595	15.7	2570	67.9	
28	1400000US15003001700	15003001700	Census Tract 17, Honolulu County, Hawaii	2437	100	1815	74.5	1545	63.4	270	11.1	622	25.5	
29	1400000US15003001801	15003001801	Census Tract 18.01, Honolulu County, Hawaii	1717	100	941	54.8	781	45.5	160	9.3	776	45.2	
30	1400000US15003001803	15003001803	Census Tract 18.03, Honolulu County, Hawaii	3360	100	1870	55.7	1612	48	258	7.7	1490	44.3	
31	1400000US15003001804	15003001804	Census Tract 18.04, Honolulu County, Hawaii	1849	100	1004	54.3	865	46.8	139	7.5	845	45.7	
32	1400000US15003001901	15003001901	Census Tract 19.01, Honolulu County, Hawaii	837	100	601	71.8	547	65.4	54	6.5	236	28.2	
33	1400000US15003001903	15003001903	Census Tract 19.03, Honolulu County, Hawaii	2770	100	1416	51.1	1214	43.8	202	7.3	1354	48.9	
34	1400000US15003001904	15003001904	Census Tract 19.04, Honolulu County, Hawaii	3912	100	2198	56.2	1901	48.6	297	7.6	1714	43.8	

TIGER/Line Shapefiles

What are TIGER/Line Shapefiles?

- Extracts of selected geographic and cartographic information from MTDB.
- Nationwide coverage
- Contains no sensitive data
- Are designed for use with GIS
- Contains geographic linear, areal, and point features, including attribute information
- Geographic entity boundaries
- The legal and statistical areas for which Census tabulates data

File Naming Convention

The name of each file is:

tl_2010_<extent>_<layer>_<ext>

- tl- TIGER/Line
- 2010- version
- extent - 2 digit state FIPS code
- 5 digit state county FIPS code
- layer- type of geography or feature
10 at the end = 2010 census geography
00 at the end = 2000 census geography
- ext – file extension

2010 TIGER/Line® Shapefiles Release Schedule

Data Product Supported	Geography Released	TIGER/Line Shapefiles Release Dates
2010 Census Redistricting Data (P. L. 94-171)	State-based Files to Block for the U.S. and Puerto Rico	Completed
National Summary File of Redistricting Data/Summary File 1	National Files	Completed
Summary File 1	5-digit ZIP Code Tabulation Areas	Completed
Island Areas Summary File	Island Areas	Completed
Urban Area Update	Urban Areas	2012
113th Congressional District Summary File	113th Congressional Districts	2013
Public Use Microdata Sample (PUMS) File	Public Use Microdata Areas	To Be Determined

Available Layers

U.S. Census Bureau

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2010 Census Redistricting [P.L. 94-171] TIGER/Line Shapefiles

TIGER Navigation

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[2007 TIGER/LINE SHAPEFILES](#)

[TIGER/LINE FILES](#)

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Available 2010 Census Redistricting [P.L. 94-171] TIGER/Line Shapefiles[#]

Layer	State-Based Files	County- Based Files	Census 2000 Vintage	2010 Census Vintage
American Indian/Alaska Native/Native Hawaiian Area	X		X	X
American Indian Tribal Subdivision	X		X	X
Alaska Native Regional Corporation	X		X	X
Block	X	X	X	X
Block Group	X	X	X	X
Census Tract	X	X	X	X
108th Congressional District	X		X*	
111th Congressional District	X			X*
Consolidated City	X		X	X
County and Equivalent	X		X	X
County Subdivision	X	X	X	X

Accessing TIGER/Line Shapefiles

U.S. Census Bureau

2010 RESIDENT POPULATION
308,745,538

Learn more about apportionment

► Data Map ► News
► Animation ► Director's Blog
► Census in Schools

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Read our Census Blogs

Data Finders

[Population Clocks](#)
U.S. 311,868,719
World 6,892,674,530
18:34 UTC (EST+5) Jan 10, 2011

Population Finder
city/ town, county, or zip
or state
Select a state GO

Find An Area Profile with [QuickFacts](#)
Select a state to begin
Select a state

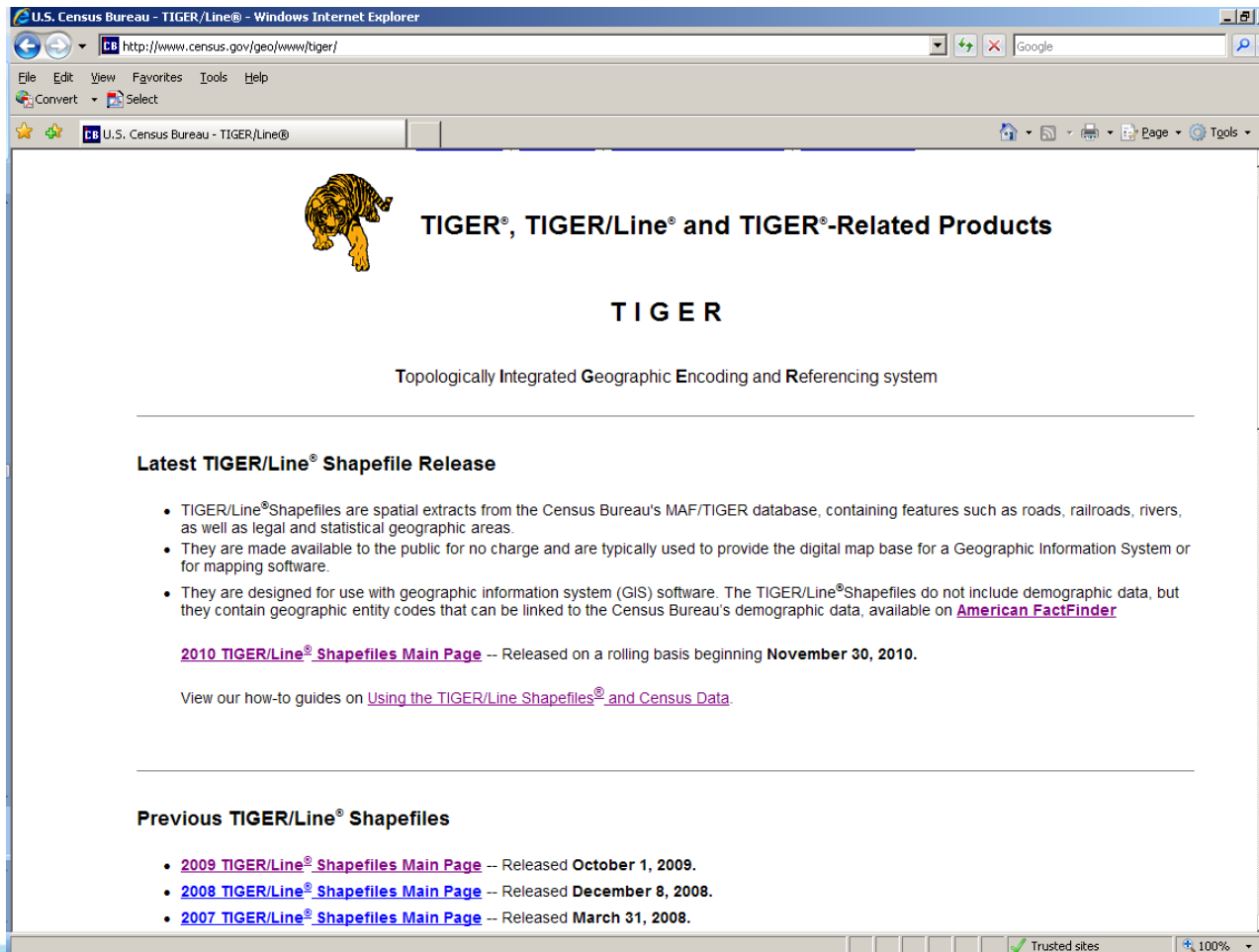
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• [Quarterly Financial Report - Retail Trade](#)
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Select an indicator

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Select Correct Version of TIGER/Line



The screenshot shows a Windows Internet Explorer browser window with the address bar displaying <http://www.census.gov/geo/www/tiger/>. The page title is "U.S. Census Bureau - TIGER/Line®". The main content area features a tiger logo and the heading "TIGER®, TIGER/Line® and TIGER®-Related Products". Below this, the word "TIGER" is displayed in large, bold, black letters, followed by the subtitle "Topologically Integrated Geographic Encoding and Referencing system".

Latest TIGER/Line® Shapefile Release

- TIGER/Line® Shapefiles are spatial extracts from the Census Bureau's MAF/TIGER database, containing features such as roads, railroads, rivers, as well as legal and statistical geographic areas.
- They are made available to the public for no charge and are typically used to provide the digital map base for a Geographic Information System or for mapping software.
- They are designed for use with geographic information system (GIS) software. The TIGER/Line® Shapefiles do not include demographic data, but they contain geographic entity codes that can be linked to the Census Bureau's demographic data, available on [American FactFinder](#).

[2010 TIGER/Line® Shapefiles Main Page](#) -- Released on a rolling basis beginning **November 30, 2010**.

View our how-to guides on [Using the TIGER/Line Shapefiles® and Census Data](#).

Previous TIGER/Line® Shapefiles

- [2009 TIGER/Line® Shapefiles Main Page](#) -- Released **October 1, 2009**.
- [2008 TIGER/Line® Shapefiles Main Page](#) -- Released **December 8, 2008**.
- [2007 TIGER/Line® Shapefiles Main Page](#) -- Released **March 31, 2008**.

2010 TIGER/Line Shapefiles Main Page - Windows Internet Explorer


http://www.census.gov/geo/www/tiger/tgrshp2010/tgrshp2010.html

File Edit View Favorites Tools Help

Convert Select

2010 TIGER/Line Shapefiles Main Page

Page Tools



2010 Census TIGER/Line® Shapefiles

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- 2007 TIGER/LINE SHAPEFILES
- TIGER/LINE FILES

OTHER 2010 CENSUS GEOGRAPHIC PRODUCTS

GEOGRAPHY MAIN PAGE

What are the TIGER/Line Shapefiles?

Topologically Integrated Geographic Encoding and Referencing

- 2010 extracts containing geographic and cartographic information from the Census Bureau's MAF/TIGER® (Master Address File/Topologically Integrated Geographic Encoding and Referencing) database.
- These files support the 2010 Census Redistricting Data (P. L. 94-171) release.
- The files provide the digital map base for a Geographic Information System or mapping software. The files do not contain any mapping software.
- The files contain the boundaries for legal entities as of January 1, 2010.
- The geographic entity codes needed to link the Census Bureau's demographic data to the geography are included in the files. The TIGER/Line Shapefiles do not contain any demographic or economic data; data can be downloaded separately using [American FactFinder](#).

2010 Census Redistricting [P.L. 94-171] TIGER/Line Shapefiles

- 2010 Census Redistricting [P.L. 94-171] TIGER/Line Shapefiles may be obtained via the links below.
- [Shapefiles included in the Redistricting \[P.L. 94-171\] delivery](#)
- [More information about the Redistricting Program](#)

Download

Download by type (all census tracts, all counties, etc.):

- [Web interface](#)
- [FTP site](#)

Download by state:

- [FTP site](#)

Trusted sites 100%

Joining TIGER and Census Statistical Data

Attribute Tables

Attributes of tl_2010_15_tract10

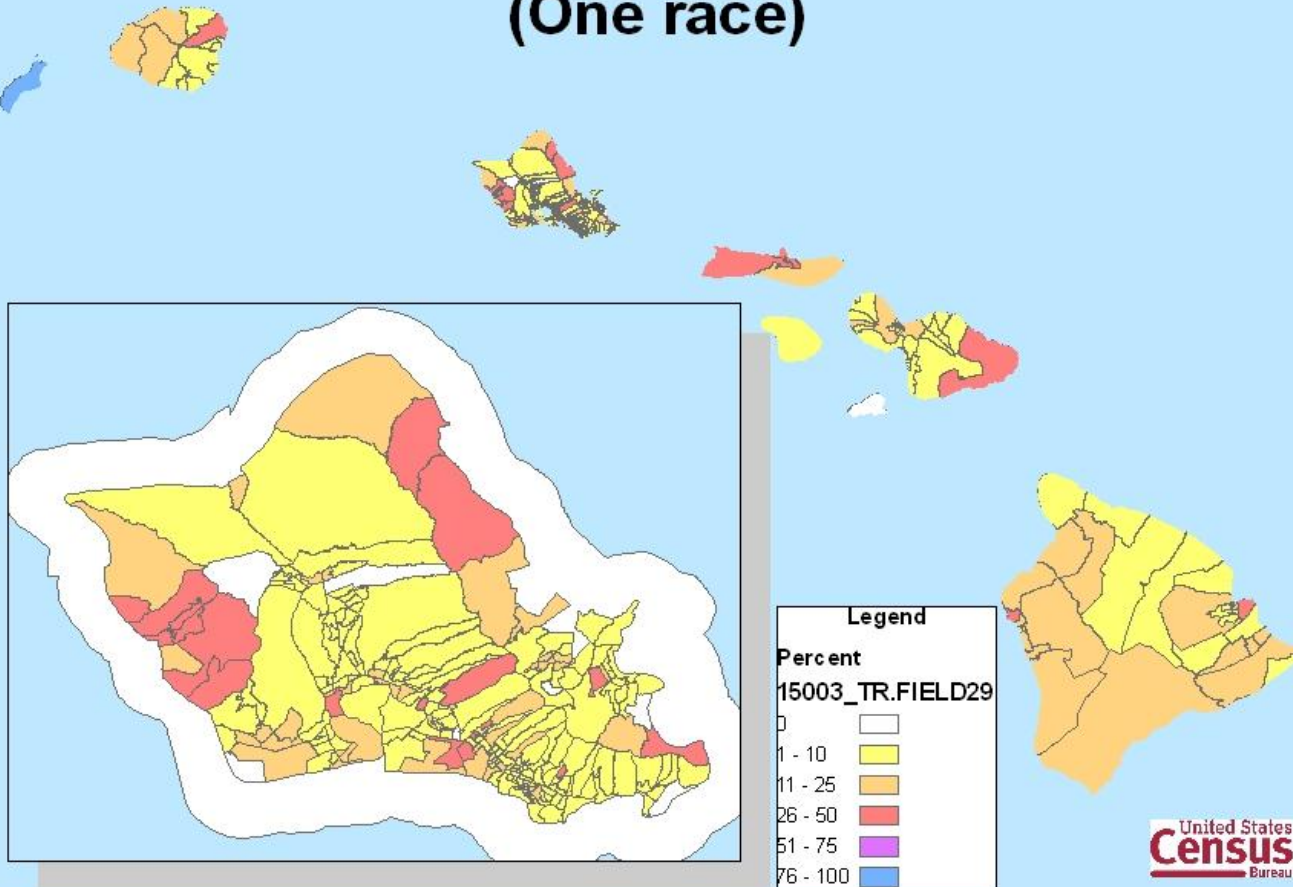
	FID	Shape ^	STATEFP10	COUNTYFP10	TRACTCE10	GEOID10	NAME10	NAMELSAD10				MTFCC10	FUNCSTAT10	ALAND10	AWATER10	
	0	Polygon	15	003	980600	15003980600	9806	Census Tract 9806				G5020	S	30225793	0	
	1	Polygon	15	003	009703	15003009703	97.03	Census Tract 97.03				G5020	S	5003194	1648067	
	2	Polygon	15	003	009608	15003009608	96.08	Census Tract 96.08				G5020	S	45559306	5713163	
	1	GEO.id	GEO.id2	Geography		S01	S01	S02	S02	S03	S03	S04	S04	S05	S05	S06
	2	1400000US15003000106	15003000106	Census Tract 1.06, Honolulu County, Hawaii		7704	100	3668	47.6	2448	31.8	1220	15.8	4036	52.4	0
	3	1400000US15003000107	15003000107	Census Tract 1.07, Honolulu County, Hawaii		2818	100	1300	46.1	788	28	512	18.2	1518	53.9	12028210
	4	1400000US15003000108	15003000108	Census Tract 1.08, Honolulu County, Hawaii		3264	100	1872	57.4	1346	41.2	526	16.1	1392	42.6	8416282
	5	1400000US15003000110	15003000110	Census Tract 1.10, Honolulu County, Hawaii		4288	100	2041	47.6	1277	29.8	764	17.8	2247	52.4	4509574
	6	1400000US15003000111	15003000111	Census Tract 1.11, Honolulu County, Hawaii		5035	100	1926	38.3	1009	20	917	18.2	3109	61.7	0
	7	1400000US15003000112	15003000112	Census Tract 1.12, Honolulu County, Hawaii		5555	100	2214	39.9	1328	23.9	886	15.9	3341	60.1	0
	8	1400000US15003000114	15003000114	Census Tract 1.14, Honolulu County, Hawaii		1594	100	1050	65.9	864	54.2	186	11.7	544	34.1	0
	9	1400000US15003000200	15003000200	Census Tract 2, Honolulu County, Hawaii		5742	100	2312	40.3	1144	19.9	1168	20.3	3430	59.7	0
	10	1400000US15003000301	15003000301	Census Tract 3.01, Honolulu County, Hawaii		3307	100	1225	37	790	23.9	435	13.2	2082	63	8283
	11	1400000US15003000302	15003000302	Census Tract 3.02, Honolulu County, Hawaii		2990	100	1185	39.6	649	21.7	536	17.9	1805	60.4	0
	12	1400000US15003000401	15003000401	Census Tract 4.01, Honolulu County, Hawaii		2893	100	1112	38.4	777	26.9	335	11.6	1781	61.6	0
	13	1400000US15003000402	15003000402	Census Tract 4.02, Honolulu County, Hawaii		3999	100	1404	35.1	957	23.9	447	11.2	2595	64.9	3697716
	14	1400000US15003000500	15003000500	Census Tract 5, Honolulu County, Hawaii		3807	100	1808	47.5	1312	34.5	496	13	1999	52.5	10282
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	16	1400000US15003000700	15003000700	Census Tract 7, Honolulu County, Hawaii		2966	100	722	24.3	311	10.5	411	13.9	2244	75.7	0
	17	1400000US15003000800	15003000800	Census Tract 8, Honolulu County, Hawaii		3771	100	1100	29.2	524	13.9	576	15.3	2671	70.8	0
	18	1400000US15003000901	15003000901	Census Tract 9.01, Honolulu County, Hawaii		2736	100	971	35.5	609	22.3	362	13.2	1765	64.5	1720917
	19	1400000US15003000902	15003000902	Census Tract 9.02, Honolulu County, Hawaii		4088	100	1860	45.5	1246	30.5	614	15	2228	54.5	546862
	20	1400000US15003000903	15003000903	Census Tract 9.03, Honolulu County, Hawaii		2858	100	940	32.9	507	17.7	433	15.2	1918	67.1	0
	21	1400000US15003001000	15003001000	Census Tract 10, Honolulu County, Hawaii		3096	100	1187	38.3	611	19.7	576	18.6	1909	61.7	0
	22	1400000US15003001100	15003001100	Census Tract 11, Honolulu County, Hawaii		3862	100	815	21.1	300	7.8	515	13.3	3047	78.9	0
	23	1400000US15003001201	15003001201	Census Tract 12.01, Honolulu County, Hawaii		2924	100	766	26.2	338	11.6	428	14.6	2158	73.8	-
	24	1400000US15003001202	15003001202	Census Tract 12.02, Honolulu County, Hawaii		3030	100	762	25.1	332	11	430	14.2	2268	74.9	
	25	1400000US15003001300	15003001300	Census Tract 13, Honolulu County, Hawaii		4207	100	1250	29.7	568	13.5	682	16.2	2957	70.3	
	26	1400000US15003001400	15003001400	Census Tract 14, Honolulu County, Hawaii		2550	100	742	29.1	377	14.8	365	14.3	1808	70.9	
	27	1400000US15003001500	15003001500	Census Tract 15, Honolulu County, Hawaii		3527	100	1071	30.4	494	14	577	16.4	2456	69.6	
	28	1400000US15003001600	15003001600	Census Tract 16, Honolulu County, Hawaii		3783	100	1213	32.1	618	16.3	595	15.7	2570	67.9	
	29	1400000US15003001700	15003001700	Census Tract 17, Honolulu County, Hawaii		2437	100	1815	74.5	1545	63.4	270	11.1	622	25.5	
	30	1400000US15003001801	15003001801	Census Tract 18.01, Honolulu County, Hawaii		1717	100	941	54.8	781	45.5	160	9.3	776	45.2	
	31	1400000US15003001803	15003001803	Census Tract 18.03, Honolulu County, Hawaii		3360	100	1870	55.7	1612	48	258	7.7	1490	44.3	
	32	1400000US15003001804	15003001804	Census Tract 18.04, Honolulu County, Hawaii		1849	100	1004	54.3	865	46.8	139	7.5	845	45.7	
	33	1400000US15003001901	15003001901	Census Tract 19.01, Honolulu County, Hawaii		837	100	601	71.8	547	65.4	54	6.5	236	28.2	
	34	1400000US15003001903	15003001903	Census Tract 19.03, Honolulu County, Hawaii		2770	100	1416	51.1	1214	43.8	202	7.3	1354	48.9	
	35	1400000US15003001904	15003001904	Census Tract 19.04, Honolulu County, Hawaii		3912	100	2198	56.2	1901	48.6	297	7.6	1714	43.8	

Join Function

The 'Join Data' dialog box is shown with the following configuration:

- Title:** Join Data
- Description:** Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.
- What do you want to join to this layer?**
 - Join attributes from a table
- 1. Choose the field in this layer that the join will be based on:**
 - GEOID10
- 2. Choose the table to join to this layer, or load the table from disk:**
 - 15003_TR
 - ☒ Show the attribute tables of layers in this list
- 3. Choose the field in the table to base the join on:**
 - GEOID
- Buttons:** About Joining Data, OK, Cancel, Advanced...

Percent Native Hawai'ian and Other Pacific Islander (One race)



The Future for TIGER: Geographic Support System Initiative

The Geographic Support System Initiative

– What is it?

- An initiative before Congress to increase our base funding for improving the addresses in our Master Address File

– Why is it important?

- A response to stakeholder and oversight recommendations to update and maintain our address and spatial data with a special focus on rural areas, group quarters and Puerto Rico

– What does it involve?

- An integrated program of improved address coverage, continual spatial feature updates, and enhanced quality assessment and measurement through partnerships

– Who are the major players?

- US Census Bureau with, federal, state, local, tribal, and contractor partners

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